



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D412-742-013
Job Sheet 172849



Part No: D412-742-013

Job Qty: 1 ea

Part Name: Skidtube Fits LH or RH High Gear, DART (Apical) Tri-Bag Float Compatible



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 2/22/18

Job Tracking No:

Due Date: 2/28/18

Created By: Linda Lacelle

Type: Stock

Description:

Note: IPP Rev: A 05.10.13 New Issue KJ/JLM IPP Rev:B 06-06-08 As per DSI9336 JLM IPP Rev:C 07-05-28 As per Rev C JLM IPP rev D 07.11.01 ecn 1053P EC IPP rev E 07.11.27 ecn 1072 EC verified:DD IPP Rev:F 08-09-08 ecn 08-510 DD verified:EC IPP Rev:G 09-01-23 as per DSI9441 DD verified:EC IPP Rev:H 11.11.01 as per DSI9517 REV.B DD verified:EC IPP rev:I 12.01.12 PER IIN REV.E DD VERF:JLM IPP REV:J 17.05.10 AS PER CHG010 DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Start up Operation	1 Ea		2/28/18	0.00	0.00	Start Up Stores/Pkg-1		MAR 16 2018
115	Packaging	1 pcs		2/28/18	0.00	0.00	Packaging1-4		MAR 16 2018
120	QC	1 pcs		2/28/18	0.00	0.00	QC4		DAS
125	DC	1 pcs		2/28/18	0.00	0.00	DC		58 DAS
130	Packaging	1 pcs		2/28/18	0.00	0.00	Packaging3-2		9-89 58
140	QC21-FG	1 Ea		2/28/18	0.00	0.00	QC21		MAY 07 2018 9-89

Part Op 125 - Photocopy bluefile and create labels per PPP D412-742-013 CHG0010
Descriptions: 130 - Identify and pack for shipping as per PPP D412-742-013

DAS 21 MAY 07 2018 9-89

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN3C37A	Bolt	1 Ea (1 ea)	110-Start up Operation	5038097
AN3C40A	Bolt	1 Ea (1 ea)	110-Start up Operation	5008246
AN3C41A	Bolt	1 Ea (1 ea)	110-Start up Operation	5004830
AN3C42A	Bolt	1 Ea (1 ea)	110-Start up Operation	5041523
AN3C43A	Bolt	4 Ea (4 ea)	110-Start up Operation	5004825 X3
AN3C46A	Bolt	5 Ea (5 ea)	110-Start up Operation	5006269
AN4C47A	Bolt	4 Ea (4 ea)	110-Start up Operation	5020672
AN4C52A	Bolt	4 Ea (4 ea)	110-Start up Operation	5037892
AN4C53A	Bolt	4 Ea (4 ea)	110-Start up Operation	FM137193
AN4C6A	Bolt	16 Ea (16 ea)	110-Start up Operation	5027515

001255

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date : _____	Step #: _____	MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval							
Description W Container No: S052024 Part: D412 - 742 - 013 Job No: 172849 Serial No/Batch: S052024 Revision: A Inspector:									
Root Cause <table style="width:100%;"> <tr> <td style="width:50%;"> Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width:50%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>		Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	<table style="width:100%;"> <tr> <td style="width:50%;"> Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ </td> <td style="width:50%;"> Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ </td> </tr> </table>				Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐
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AN4C7A	Bolt	4 Ea (4 ea)	110-Start up Operation	5027516
AN6C12A	Bolt	8 Ea (8 ea)	110-Start up Operation	5000668
D2571	Saddle, Fwd, Out	1 Ea (1 ea)	110-Start up Operation	5036736
D2572	Saddle, Fwd, In	1 Ea (1 ea)	110-Start up Operation	5043561
D2573	Saddle, Aft, Out	1 Ea (1 ea)	110-Start up Operation	5038662
D2574	Saddle, Aft, In	1 Ea (1 ea)	110-Start up Operation	5038658
D2747	Set Screw	4 Ea (4 ea)	110-Start up Operation	F164972
D2876	Saddle Spacer	2 Ea (2 ea)	110-Start up Operation	5051517
D2877	Saddle Spacer	2 Ea (2 ea)	110-Start up Operation	F164389xi
D3403-1	Bushing	8 Ea (8 ea)	110-Start up Operation	5042020
D3403-3	Bushing	8 Ea (8 ea)	110-Start up Operation	5036197
D3403-5	Bushing	8 Ea (8 ea)	110-Start up Operation	5036516
D3405-041	Ground Handling Lug	1 Ea (1 ea)	110-Start up Operation	5036216
D3405-043	Ground Handling Lug	1 Ea (1 ea)	110-Start up Operation	5024304
D3407-041	Tow Ring	1 Ea (1 ea)	110-Start up Operation	5048816
D3417-3	Washer	2 Ea (2 ea)	110-Start up Operation	5043180
D3456-1	Washer	1 Ea (1 ea)	110-Start up Operation	F149290
D3533-1	Set Screw	2 Ea (2 ea)	110-Start up Operation	502182
D3672-11	Washer	8 Ea (8 ea)	110-Start up Operation	5019132
D3672-3	Washer, Phenolic	32 Ea (32 ea)	110-Start up Operation	F133082
D3672-9	Washer	8 Ea (8 ea)	110-Start up Operation	5027022
D412-742-043	Repl. Skidtube Fits LH or RH, High Gear, DART (Apical) Tri-Bag Float Comp.	1 Ea (1 ea)	110-Start up Operation	F133084
MS21043-3	Nut	13 Ea (13 ea)	110-Start up Operation	5042929
MS21043-4	Nut	29 Ea (29 ea)	110-Start up Operation	5016882
NAS1149C0332R	Washer	26 Ea (26 ea)	110-Start up Operation	5027733
NAS1149C0432R	Washer	32 Ea (32 ea)	110-Start up Operation	5019380
NAS1149C0632R	Washer	8 pcs (8 ea)	110-Start up Operation	5025742
				F1136318.0

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
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Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-Start up Operation	AN3C37A	1	29	0
	AN3C40A	1	66	0
	AN3C41A	1	474	0
	AN3C42A	1	62	0
	AN3C43A	4	32	0
	AN3C46A	5	275	0
	AN4C47A	4	68	0
	AN4C52A	4	43	0
	AN4C53A	4	63	0
	AN4C6A	16	531	0
	AN4C7A	4	127	0
	AN6C12A	8	66	0
	D2571	1	18	0
	D2572	1	16	0
	D2573	1	10	0
	D2574	1	6	0
	D2747	4	140	0
	D2876	2	13	0
	D2877	2	30	0
	D3403-1	8	24	0
	D3403-3	8	24	0
	D3403-5	8	17	0
	D3405-041	1	15	0
	D3405-043	1	2	0
	D3407-041	1	26	0
	D3417-3	2	24	0
	D3456-1	1	83	0
	D3533-1	2	38	0
	D3672-11	8	552	0
	D3672-3	32	1,408	0
	D3672-9	8	894	0
	D412-742-043	1	2	0
	MS21043-3	13	1,132	0
	MS21043-4	29	901	0
	NAS1149C0332R	26	4,716	0
	NAS1149C0432R	32	1,269	0
	NAS1149C0632R	8	211	0
Part Specifications				
Specifications could not be found.				

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
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OTHER : _____					



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Hawkesbury, ON
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Canada

Tel (613) 632-5200

Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
001255	S046642	AN3C37A	Bolt	S036297	ST347	1
001255	S046640	AN3C40A	Bolt	S008246	ST347	1
001255	S046639	AN3C41A	Bolt	S004930	ST347	1
001255	S046532	AN3C42A	Bolt	s041523	ST347	1
001255	S004825	AN3C43A	Bolt	S004825	ST346	3
001255	S046528	AN3C46A	Bolt	S006269	ST346	5
001255	S020672	AN4C47A	Bolt	S020672	ST341	4
001255	S046527	AN4C52A	Bolt	S037892	ST340	4
001255	FM137193	AN4C53A	Bolt	FM137193	ST340	4
001255	S046523	AN4C6A	Bolt	s027515	ST345	16
001255	S046520	AN4C7A	Bolt	S027516	ST345	4
001255	S000668	AN6C12A	Bolt	S000668	ST335	8
001255	S046514	D2573	Saddle, Aft, Out	s038662	ST398	1
001255	S046512	D2574	Saddle, Aft, In	s038658	ST398	1
001255	S046510	D2747	Set Screw	F164972	ST010	4
001255	F164389	D2876	Saddle Spacer	F164389x1	ST013	1
001255	S046507	D2877	Saddle Spacer	S042020	ST013	2
001255	S046502	D3403-1	Bushing	s036197	ST033	8
001255	S046499	D3403-3	Bushing	s036516	ST033	8
001255	S046496	D3403-5	Bushing	S036216	ST034	8
001255	S046479	D3405-041	Ground Handling Lug	s026304	ST529	1
001255	S046474	D3407-041	Tow Ring	s043180	ST530	1
001255	S046472	D3417-3	Washer	F149290	ST034	2
001255	S046469	D3456-1	Washer	S012112	ST036	1
001255	S046450	D3533-1	Set Screw	S019132	ST038	2
001255	S046437	D3672-11	Washer	F133082	ST047	8
001255	S046423	D3672-3	Washer, Phenolic	S027022	ST047	32
001255	S046421	D3672-9	Washer	F133084	ST047	8
001255	S041929	D412-742-043	Repl. Skidtube Fits LH or RH, High Gear, DART (Apical) Tri-Bag Float Comp.	S041915	PK002	1
001255	S046411	MS21043-3	Nut	S016882	ST302	13
001255	S046403	MS21043-4	Nut	S027733	ST302	29
001255	S046401	NAS1149C0332R	Washer	S019380	ST266	26
001255	S046399	NAS1149C0432R	Washer	S025742	ST266	32
001255	S046395	NAS1149C0632R	Washer	FM136318.0	ST266	8



Dart Aerospace Ltd.
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Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
001255	S046642	AN3C37A	Bolt	S036297	Start Up Stores/Pkg-1	1
001255	S046640	AN3C40A	Bolt	S008246	Start Up Stores/Pkg-1	1
001255	S046639	AN3C41A	Bolt	S004930	Start Up Stores/Pkg-1	1
001255	S046532	AN3C42A	Bolt	s041523	Start Up Stores/Pkg-1	1
001255	S004825	AN3C43A	Bolt	S004825	Start Up Stores/Pkg-1	3
001255	S046528	AN3C46A	Bolt	S006269	Start Up Stores/Pkg-1	5
001255	S020672	AN4C47A	Bolt		Start Up Stores/Pkg-1	4
001255	S046527	AN4C52A	Bolt	S037892	Start Up Stores/Pkg-1	4
001255	FM137193	AN4C53A	Bolt		Start Up Stores/Pkg-1	4
001255	S046523	AN4C6A	Bolt	s027515	Start Up Stores/Pkg-1	16
001255	S046520	AN4C7A	Bolt	S027516	Start Up Stores/Pkg-1	4
001255	S000668	AN6C12A	Bolt		Start Up Stores/Pkg-1	8
001255	S048087	D2572	Saddle, Fwd, In	S043561	ST397	1
001255	S046514	D2573	Saddle, Aft, Out	s038662	Start Up Stores/Pkg-1	1
001255	S046512	D2574	Saddle, Aft, In	s038658	Start Up Stores/Pkg-1	1
001255	S046510	D2747	Set Screw	F164972	Start Up Stores/Pkg-1	4
001255	F164389	D2876	Saddle Spacer		Start Up Stores/Pkg-1	1
001255	S046507	D2877	Saddle Spacer	S042020	Start Up Stores/Pkg-1	2
001255	S046502	D3403-1	Bushing	s036197	Start Up Stores/Pkg-1	8
001255	S046499	D3403-3	Bushing	s036516	Start Up Stores/Pkg-1	8
001255	S046496	D3403-5	Bushing	S036216	Start Up Stores/Pkg-1	8
001255	S046479	D3405-041	Ground Handling Lug	s026304	Start Up Stores/Pkg-1	1
001255	S046474	D3407-041	Tow Ring	s043180	Start Up Stores/Pkg-1	1
001255	S046472	D3417-3	Washer	F149290	Start Up Stores/Pkg-1	2
001255	S046469	D3456-1	Washer	S012112	Start Up Stores/Pkg-1	1
001255	S046450	D3533-1	Set Screw	S019132	Start Up Stores/Pkg-1	2
001255	S046437	D3672-11	Washer	F133082	Start Up Stores/Pkg-1	8
001255	S046423	D3672-3	Washer, Phenolic	S027022	Start Up Stores/Pkg-1	32
001255	S046421	D3672-9	Washer	F133084	Start Up Stores/Pkg-1	8
001255	S041929	D412-742-043	Repl. Skidtube Fits LH or RH, High Gear, DART (Apical) Tri-Bag Float Comp.	S041915	Start Up Stores/Pkg-1	1
001255	S046411	MS21043-3	Nut	S016882	Start Up Stores/Pkg-1	13
001255	S046403	MS21043-4	Nut	S027733	Start Up Stores/Pkg-1	29
001255	S046401	NAS1149C0332R	Washer	S019380	Start Up Stores/Pkg-1	26
001255	S046395	NAS1149C0632R	Washer	FM136318.0	Start Up Stores/Pkg-1	8



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Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
001255	S046642	AN3C37A	Bolt	S036297	Start Up Stores/Pkg-1	1
001255	S046640	AN3C40A	Bolt	S008246	Start Up Stores/Pkg-1	1
001255	S046639	AN3C41A	Bolt	S004930	Start Up Stores/Pkg-1	1
001255	S046532	AN3C42A	Bolt	s041523	Start Up Stores/Pkg-1	1
001255	S004825	AN3C43A	Bolt <i>S0494J6X1</i>	S004825	Start Up Stores/Pkg-1	3
001255	S046528	AN3C46A	Bolt	S006269	Start Up Stores/Pkg-1	5
001255	S020672	AN4C47A	Bolt		Start Up Stores/Pkg-1	4
001255	S046527	AN4C52A	Bolt	S037892	Start Up Stores/Pkg-1	4
001255	FM137193	AN4C53A	Bolt		Start Up Stores/Pkg-1	4
001255	S046523	AN4C6A	Bolt	s027515	Start Up Stores/Pkg-1	16
001255	S046520	AN4C7A	Bolt	S027516	Start Up Stores/Pkg-1	4
001255	S000668	AN6C12A	Bolt		Start Up Stores/Pkg-1	8
001255	S048087	D2572	Saddle, Fwd, In	S043561	ST397	1
001255	S046514	D2573	Saddle, Aft, Out	s038662	Start Up Stores/Pkg-1	1
001255	S046512	D2574	Saddle, Aft, In	s038658	Start Up Stores/Pkg-1	1
001255	S046510	D2747	Set Screw	F164972	Start Up Stores/Pkg-1	4
001255	F164389	D2876	Saddle Spacer		Start Up Stores/Pkg-1	1
001255	S046507	D2877	Saddle Spacer	S042020	Start Up Stores/Pkg-1	2
001255	S046502	D3403-1	Bushing	s036197	Start Up Stores/Pkg-1	8
001255	S046499	D3403-3	Bushing	s036516	Start Up Stores/Pkg-1	8
001255	S046496	D3403-5	Bushing	S036216	Start Up Stores/Pkg-1	8
001255	S046479	D3405-041	Ground Handling Lug	s026304	Start Up Stores/Pkg-1	1
001255	S051379	D3405-043	Ground Handling Lug	S048816	ST529	1
001255	S046474	D3407-041	Tow Ring	s043180	Start Up Stores/Pkg-1	1
001255	S046472	D3417-3	Washer	F149290	Start Up Stores/Pkg-1	2
001255	S046469	D3456-1	Washer	S012112	Start Up Stores/Pkg-1	1
001255	S046450	D3533-1	Set Screw	S019132	Start Up Stores/Pkg-1	2
001255	S046437	D3672-11	Washer	F133082	Start Up Stores/Pkg-1	8
001255	S046423	D3672-3	Washer, Phenolic	S027022	Start Up Stores/Pkg-1	32

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
001255	S046421	D3672-9	Washer	F133084	Start Up Stores/Pkg-1	8
001255	S041929	D412-742-043	Repl. Skidtube Fits LH or RH, High Gear, DART (Apical) Tri-Bag Float Comp.	S041915	Start Up Stores/Pkg-1	1
001255	S046411	MS21043-3	Nut	S016882	Start Up Stores/Pkg-1	13
001255	S046403	MS21043-4	Nut	S027733	Start Up Stores/Pkg-1	29
001255	FM138207-25	NAS1149C0332R	Washer		ST260A	26
001255	S046395	NAS1149C0632R	Washer	FM136318.0	Start Up Stores/Pkg-1	8

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 3/14/18 12:39 PM dart.quirion.sonia

Part Number: D412-742-013Description: FLOAT SKIDTUBE[illegible]

QA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								